

FIXED SHOE

400 K < REACTION < 1000 K. USE 5/8" WELD. 1000 K ≤ REACTION ≤ 1500 K, USE 3/4" WELD

* FOR REACTIONS > 1000 KIPS

TABLE OF DIMENSIONS

REACTION (KIPS)	А	В	С	G VALUES							r			
				G=1'-7''	G=1'-9"	G=1'-11''	G=2'-1"	G=2'-3"	G=2'-5"	Н			s	Т
				U	U	U	U	U	U		STEM	PLATE		
400-499	115/16	215/16"	3"	2'-8"	2'-8"	2'-10"	3'-0"	_	_	1'-6''	1"/16"	145%4	23/8"	1'-4"
500-599	115/16 **	215/16"	3"	3'-0"	3'-0"	3'-0"	3'-0"	_	_	1'-7"	1"/16"	145/64 "	23/8"	1'-5"
600-699	115/16 ''	215/16"	3"	_	3'-3"	3'-3''	3'-3"	3'-3"	_	1'-9"	1"/16 "	145%4 "	23/8"	1'-6"
700-799	23/16"	3 1/16 "	31/2"	_	_	3'-6"	3'-6"	3'-6"	3'-6"	1'-10''	115/16 ''	161/64 "	21/8"	1'-7"
800-899	23/16"	31/16"	31/2"	_	_	3'-9"	3'-9"	3'-9"	3'-9"	2'-0"	1 ¹⁵ / ₁₆ ''	161/64 "	21/8"	1'-8"
900-999	23/16"	31/16"	31/2"	_	_	3'-10"	3'-10"	3'-10"	3'-10"	2'-1"	115/16 "	161/64 "	2 1/8"	1'-10'
1000-1099	2 1/16 "	315/16"	4"		_	_	4'-0"	4'-0"	4'-0"	2'-3"	23/6"	213/64 "	33/8"	1'-11"
1100-1199	2 1/16 "	315/16"	4"	_	_	_	4'-2"	4'-2"	4'-2"	2'-4"	23/16"	213/64 "	33/8"	2'-0'
1200-1299	21/16"	315//6"	4"	_	_	_	_	4'-4''	4'-4"	2'-5"	23/16"	213/64 "	33/8"	2'-1"
1300-1399	2 1/16 "	315/16"	4"		_	_	_	4'-6"	4'-6"	2'-6"	23/16"	213/64 "	33/8"	2'-2'
1400-1500	21/16"	315/16"	4"	_	_	_	_	4'-8''	4'-8''	2'-7"	23/6"	213/64 "	33/8"	2'-3"

<u>NOTES</u>

FABRICATOR MAY INCREASE 'BASE PLATE' THICKNESS AS AN ALTERNATE TO SHIMS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS, ON WELDED BEARINGS. FINAL MACHINING CAN BE PERFORMED BEFORE WELDING IS COMPLETED.

ALL MATERIAL FOR BEARINGS INCLUDING SHIMS BUT EXCLUDING ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO A.S.T.M. SPECIFICATION TYPE A709 GRADE 50W STEEL.

ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO A.S.T.M. SPECIFICATION TYPE ATO9 GRADE 36 © STEEL. ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS "S" PLATE THICKNESS + 2/4" ABOVE TOP OF CONCRETE MASONRY. CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

AFTER WELDING SHOE ASSEMBLY, FINISH BOTTOM OF BASE PLATE TO A FLAT SURFACE.

ALL SURFACES MARKED \mathcal{F}^n Shall be machine finished by an automatic process. The contact area of bottom surface of the Girder flange shall be machine finished.

ANCHOR BOLT DISTANCES ALONG "T" OR "U" MAY BE INCREASED FROM MINIMUM SHOWN WHEN A COMMON GRID DETAIL IS DESIRED FOR SEVERAL BEARINGS.

FOR UNPAINTED STRUCTURES THE UPPER 6" OF THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY A.S.T.M. DESIGNATION AI53, CLASS C OR B633.

ALL MATERIALS IN TYPE "B" FIXED SHOE BEARINGS, INCLUDING SHIMS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES FIXED B-_-".

OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

TYPE "B" - STEEL GIRDERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DEVELOPMENT SECTION

APPROVED: _Stanley W. Woods_

5-04

FIXED SHOE